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SEQUENCE LISTING

<110> University of Zurich

<120> Hetero-associating coiled coil peptides

<130> D 2398 PCT

<140> US/10/019,596

<141> 2002-07-11

<160> 36

<170> PatentIn version 3.0

<210> 1

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> Description of Artificial Sequence: synthetic construct

<220>

<221> PEPTDIE

<222> (1)..(32)

<223> Xaa at positions 5, 7, 12, 14, 19, 21, 26 and 28 represents a mixture of glu, lys, gln or arg

<220>

<221> PEPTDIE

<222> (1)..(32)

<223> Xaa at position 15 represents a mixture of asn or val

<400> 1

Val	Ala	Gln	Leu	Xaa	Glu	Xaa	Val	Lys	Thr	Leu	Xaa	Ala	Xaa	Xaa	Tyr
1				5				10						15	

Glu Leu Xaa Ser Xaa Val Gln Arg Leu Xaa Glu Xaa Val Ala Gln Leu

			20					25						30	
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<210> 2

<211> 32

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<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> Description of Artificial Sequence: synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> Xaa at positions 5, 7, 12, 14, 19, 21, 26 and 28 represents a mixture of glu, lys, gln or arg

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> Xaa at position 15 represents a mixture of asn or val

<400> 2
 Val Asp Glu Leu Xaa Ala Xaa Val Asp Gln Leu Xaa Asp Xaa Xaa Tyr
 1 5 10 15
 Ala Leu Xaa Thr Xaa Val Ala Gln Leu Xaa Lys Xaa Val Glu Lys Leu
 20 25 30

<210> 3
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 3
 Val Ala Gln Leu Glu Glu Lys Val Lys Thr Leu Arg Ala Gln Asn Tyr
 1 5 10 15
 Glu Leu Lys Ser Arg Val Gln Arg Leu Arg Glu Gln Val Ala Gln Leu
 20 25 30

<210> 4
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 4
 Val Ala Gln Leu Arg Glu Arg Val Lys Thr Leu Arg Ala Gln Asn Tyr
 1 5 10 15
 Glu Leu Glu Ser Glu Val Gln Arg Leu Arg Glu Gln Val Ala Gln Leu
 20 25 30

<210> 5
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE

<222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 5

Val	Ala	Gln	Leu	Gln	Glu	Lys	Val	Lys	Thr	Leu	Arg	Ala	Arg	Asn	Tyr
1				5				10						15	
Glu	Leu	Lys	Ser	Glu	Val	Gln	Arg	Leu	Glu	Glu	Lys	Val	Ala	Gln	Leu
			20					25					30		

<210> 6
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 6

Val	Ala	Gln	Leu	Glu	Glu	Gln	Val	Lys	Thr	Leu	Gln	Ala	Arg	Asn	Tyr
1				5				10						15	
Glu	Leu	Lys	Ser	Lys	Val	Gln	Arg	Leu	Lys	Glu	Lys	Val	Ala	Gln	Leu
			20					25					30		

<210> 7
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 7

Val	Ala	Gln	Leu	Glu	Glu	Arg	Val	Lys	Thr	Leu	Arg	Ala	Gln	Asn	Tyr
1				5				10						15	
Glu	Leu	Lys	Ser	Lys	Val	Gln	Arg	Leu	Glu	Glu	Gln	Val	Ala	Gln	Leu
			20					25					30		

<210> 8
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 8

Val Ala Gln Leu Glu Glu Gln Val Lys Thr Leu Glu Ala Glu Asn Tyr
1 5 10 15

Glu Leu Lys Ser Lys Val Gln Arg Leu Arg Glu Arg Val Ala Gln Leu
20 25 30

<210> 9

<211> 32

<212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> hetero-associating (poly)peptide

<400> 9

Val Ala Gln Leu Gln Glu Gln Val Lys Thr Leu Glu Ala Gln Asn Tyr
1 5 10 15

Glu Leu Glu Ser Glu Val Gln Arg Leu Lys Glu Gln Val Ala Gln Leu
20 25 30

<210> 10

<211> 32

<212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> hetero-associating (poly)peptide

<400> 10

Val Ala Gln Leu Glu Glu Arg Val Lys Thr Leu Lys Ala Glu Asn Tyr
1 5 10 15

Glu Leu Glu Ser Glu Val Gln Arg Leu Lys Glu Arg Val Ala Gln Leu
20 25 30

<210> 11

<211> 32

<212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> hetero-associating (poly)peptide

<400> 11

Val Ala Gln Leu Glu Glu Lys Val Lys Thr Leu Lys Ala Lys Asn Tyr
 1 5 10 15

Glu Leu Lys Ser Lys Val Gln Arg Leu Lys Glu Lys Val Ala Gln Leu
 20 25 30

<210> 12
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 12

Val Ala Gln Leu Gln Glu Glu Val Lys Thr Leu Gln Ala Glu Asn Tyr
 1 5 10 15

Glu Leu Arg Ser Glu Val Gln Arg Leu Glu Glu Glu Val Ala Gln Leu
 20 25 30

<210> 13
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 13

Val Ala Gln Leu Arg Glu Arg Val Lys Thr Leu Arg Ala Arg Asn Tyr
 1 5 10 15

Glu Leu Gln Ser Lys Val Gln Arg Leu Lys Glu Arg Val Ala Gln Leu
 20 25 30

<210> 14
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 14

Val Asp Glu Leu Gln Ala Glu Val Asp Gln Leu Gln Asp Glu Asn Tyr
 1 5 10 15

Ala Leu Lys Thr Lys Val Ala Gln Leu Arg Lys Lys Val Glu Lys Leu
 20 25 30

<210> 15
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 15

Val Asp Glu Leu Lys Ala Glu Val Asp Gln Leu Gln Asp Gln Asn Tyr
 1 5 10 15

Ala Leu Arg Thr Lys Val Ala Gln Leu Arg Lys Glu Val Glu Lys Leu
 20 25 30

<210> 16
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 16

Val Asp Glu Leu Glu Ala Glu Val Asp Gln Leu Lys Asp Gln Asn Tyr
 1 5 10 15

Ala Leu Lys Thr Lys Val Ala Gln Leu Gln Lys Gln Val Glu Lys Leu
 20 25 30

<210> 17
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 17

Val Asp Glu Leu Arg Ala Lys Val Asp Gln Leu Gln Asp Glu Asn Tyr
 1 5 10 15

Ala Leu Glu Thr Glu Val Ala Gln Leu Gln Lys Arg Val Glu Lys Leu
 20 25 30

<210> 18
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 18

Val Asp Glu Leu Glu Ala Glu Val Asp Gln Leu Glu Asp Gln Asn Tyr
 1 5 10 15

Ala Leu Gln Thr Arg Val Ala Gln Leu Glu Lys Arg Val Glu Lys Leu
 20 25 30

<210> 19
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 19

Val Asp Glu Leu Lys Ala Lys Val Asp Gln Leu Lys Asp Lys Asn Tyr
 1 5 10 15

Ala Leu Arg Thr Lys Val Ala Gln Leu Arg Lys Lys Val Glu Lys Leu
 20 25 30

<210> 20
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 20

Val Asp Glu Leu Arg Ala Gln Val Asp Gln Leu Gln Asp Lys Asn Tyr
 1 5 10 15

Ala Leu Arg Thr Arg Val Ala Gln Leu Lys Lys Arg Val Glu Lys Leu
 20 25 30

<210> 21

<211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 21

Val Asp Glu Leu Gln Ala Glu Val Asp Gln Leu Gln Asp Gln Asn Tyr
 1 5 10 15

Ala Leu Arg Thr Gln Val Ala Gln Leu Lys Lys Lys Val Glu Lys Leu
 20 25 30

<210> 22
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 22

Val Asp Glu Leu Arg Ala Gln Val Asp Gln Leu Glu Asp Gln Asn Tyr
 1 5 10 15

Ala Leu Glu Thr Gln Val Ala Gln Leu Glu Lys Glu Val Glu Lys Leu
 20 25 30

<210> 23
 <211> 32
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> hetero-associating (poly)peptide

<400> 23

Val Asp Glu Leu Gln Ala Lys Val Asp Gln Leu Lys Asp Glu Asn Tyr
 1 5 10 15

Ala Leu Gln Thr Lys Val Ala Gln Leu Gln Lys Arg Val Glu Lys Leu
 20 25 30

<210> 24
 <211> 32
 <212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> hetero-associating (poly)peptide

<400> 24

Val	Asp	Glu	Leu	Arg	Ala	Glu	Val	Asp	Gln	Leu	Glu	Asp	Glu	Asn	Tyr
1				5					10					15	

Ala	Leu	Arg	Thr	Arg	Val	Ala	Gln	Leu	Arg	Lys	Gln	Val	Glu	Lys	Leu
			20					25					30		

<210> 25

<211> 103

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> (1)..(103)

<223> Description of Artificial Sequence: synthetic DNA construct

<220>

<221> misc_feature

<222> (1)..(103)

<223> nnn = mixture of aag, cag, gag, cgt or aat, gtt

<400> 25

tactgtggcg	caactgnnng	aannngtgaa	aacccttnnn	gctnnnnnnt	atgaactnn	60
ntctnnngtg	agcgcttggn	ngagnnngtt	gccagcttg	cta		103

<210> 26

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> Description of Artificial Sequence: synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> Xaa at position 5, 7, 12, 14, 19, 21, 26 and 28 represents a mixture of glu, lys, gln or arg

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> Xaa at position 15 represents a mixture of asn or val

<400> 26

Val Ala Gln Leu Xaa Glu Xaa Val Lys Thr Leu Xaa Ala Xaa Xaa Tyr
 1 5 10 15

Glu Leu Xaa Ser Xaa Val Gln Arg Leu Xaa Glu Xaa Val Ala Gln Leu
 20 25 30

<210> 27

<211> 104

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> (1)..(104)

<223> Description of Artificial Sequence: synthetic DNA
 construct

<220>

<221> misc_feature

<222> (1)..(104)

<223> nnn = mixture of aag, cag, gag, cgt or aat, gtt

<400> 27

ctccgttgac gaactgnng ctnngttga ccagctgnnn gacnnnnnt acgctctgnn 60
 naccnngtt cgcagctgnn naaannngtg gaaaagctgt gata 104

<210> 28

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> Description of Artificial Sequence: synthetic
 construct

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> Xaa at position 5, 7, 12, 14, 19, 21, 26 and
 28 represents a mixture of glu, lys, gln or arg

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> xaa at position 15 represents a mixture of asn or val

<400> 28

Val Asp Glu Leu Xaa Ala Xaa Val Asp Gln Leu Xaa Asp Xaa Xaa Tyr
 1 5 10 15

Ala Leu Xaa Thr Xaa Val Ala Gln Leu Xaa Lys Xaa Val Glu Lys Leu
 20 25 30

<210> 29
 <211> 38
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(38)
 <223> synthetic construct
 DNA primer

<400> 29
 ggagtactgg catgcagtcg actactgtgg cgcaactg

38

<210> 30
 <211> 32
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(32)
 <223> synthetic construct
 DNA reverse primer

<400> 30
 ggactagtagc cttagctagc aagctgggca ac

32

<210> 31
 <211> 38
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(38)
 <223> synthetic construct
 DNA forward primer

<400> 31
 ggagtactgg catgcagtcg acctccgttg acgaactg

38

<210> 32
 <211> 32
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(32)
 <223> synthetic construct
 DNA reverse primer

<400> 32
 ggactagtagc tagcttctga cagcttttcc ac

32

<210> 33
 <211> 15
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> synthetic construct
 cloning linker

<400> 33

Ala Ser Gly Thr Ser Ser Gly Thr Ser Ser Thr Ser Ser Gly Ile
 1 5 10 15

<210> 34
 <211> 14
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> synthetic construct
 cloning linker

<400> 34

Ser Glu Ala Ser Gly Thr Ser Ser Gly Thr Ser Ser Thr Ser
 1 5 10

<210> 35
 <211> 37
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> (1)..(37)
 <223> N-acetylated and C-amidated synthetic peptide

<400> 35

Ser Thr Thr Val Ala Gln Leu Glu Glu Lys Val Lys Thr Leu Arg Ala
 1 5 10 15

Gln Asn Tyr Glu Leu Lys Ser Arg Val Gln Arg Leu Arg Glu Gln Val
 20 25 30

Ala Gln Leu Ala Ser
 35

<210> 36
 <211> 37
 <212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<222> (1)..(37)

<223> N-acetylated and C-amidated synthetic peptide

<400> 36

Ser	Thr	Ser	Val	Asp	Glu	Leu	Gln	Ala	Glu	Val	Asp	Gln	Leu	Gln	Asp
1				5					10				15		

Glu	Asn	Tyr	Ala	Leu	Lys	Thr	Lys	Val	Ala	Gln	Leu	Arg	Lys	Lys	Val
			20					25					30		

Glu	Lys	Leu	Ser	Glu
			35	